

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method of operating a processor comprising:  
receiving data specified by execution of a fast-write instruction in a processing thread  
~~having identified by~~ a processing thread number; ~~and~~  
selecting bit positions of a register specified by execution of the fast-write instruction  
according to the processing thread number; and  
loading the data into the selected bits bit positions of ~~[[a]]~~ the register ~~according to the~~  
~~processing thread number.~~
2. (Original) The method of claim 1 wherein the register is a control and status register (CSR).
3. (Previously presented) The method of claim 2 wherein the control and status register is coupled to a 64-bit wide first-in first-out (FIFO) bus.
4. (Original) The method of claim 3 wherein the FIFO bus interfaces with Media Access Controller (MAC) devices.
5. (Previously presented) The method of claim 1 wherein the data represents hexadecimal mask values 0 to 0x3FF.

6. (Original) The method of claim 1 wherein the processing thread represents processing in a micro engine of a multi-threaded processor.

7. (Currently amended) The method of claim 1, wherein loading the data comprises:  
shifting a first portion of the data by an amount equal to the processing thread number;  
and  
shifting a second portion of the data into ~~bits~~ bit positions corresponding to a breakpoint (BP) register 2 through a ~~breakpoint~~ BP register 0.

8. (Currently Amended) The method of claim 1 wherein ~~receiving the data further comprises receiving~~ the fast-write instruction comprises a token.

9. (Original) The method of claim 8 wherein the token represents overriding qualifiers.

10. (Original) The method of claim 8 wherein the token is a 32-bit word.

11. (Previously presented) The method of claim 10 wherein a token format comprises:

- an OV field in bit 31;
- a micro engine (UENG) ADDR field in bits 30:28;
- a reserved field in bits 27:16;
- an OV field in bit 15;
- a fast write data field in bits 14:5;
- a reserved field in bits 4:3;
- an OV field in bit 2; and
- a CTX field in bits 1:0.

12. (Original) The method of claim 11 wherein a micro engine address overrides a default micro engine address if bit 31 is set.

13. (Original) The method of claim 11 wherein bits 30:28 specify a micro engine associated with a control and status register (CSR).

14. (Original) The method of claim 11 wherein bits 27:16 return 0 when read.

15. (Original) The method of claim 11 wherein a micro engine address overrides a default micro engine address if bit 15 is set.

16. (Original) The method of claim 11 wherein bits 14:5 represent valid data to be written to a control and status register (CSR).

17. (Original) The method of claim 11 wherein bits 4:3 return 0 when read.

18. (Original) The method of claim 11 wherein a context (CTX) field overrides a default context if bit 2 is set.

19. (Original) The method of claim 11 wherein bits 1:0 specify a context associated with a control and status register (CSR) reference.

20. (Currently amended) A computer program product, disposed on a computer readable medium, the program comprising ~~instructions~~ a fast-write instruction that causes for ~~causing~~ a computer to:

receive data specified in the fast-write instruction in a processing thread ~~having identified~~ by a processing thread number; and

select bit positions of a register specified in the fast-write instruction according to the processing thread number; and

load the data into the selected ~~bits~~ bit positions of ~~[[a]]~~ the register ~~according to the processing thread number.~~

21. (Original) The computer program product of claim 20 wherein the register field is a control and status register (CSR).

22. (Previously presented) The computer program product of claim 21 wherein the control and status register is coupled to a 64-bit wide first-in first-out (FIFO) bus.

23. (Original) The computer program product of claim 22 wherein the FIFO bus interfaces with Media Access Controller (MAC) devices.

24. (Currently amended) The computer program product of claim 20 wherein the data represents hexadecimal mask values 0 to 0x3FF.

25. (Original) The computer program product of claim 20 wherein the processing thread represents processing in a micro engine of a multi-threaded processor.

26. (Currently amended) The computer program product of claim 20, wherein the fast-write instruction further ~~comprising instructions for causing~~ causes the computer to:  
shift a first portion of the data left by an amount equal to the processing thread number;  
and  
shift a second portion of the data into ~~bits~~ bit positions corresponding to a breakpoint (BP) register 2 through BP register 0.

27. (Currently amended) The computer program product of claim 20, wherein the fast-write instruction comprises further comprising an instruction for causing causes the computer to receive a token.

28. (Original) The computer program product of claim 27 wherein the token represents overriding qualifiers.

29. (Original) The computer program product of claim 27 wherein the token is a 32-bit word.

30. (Previously presented) The computer program product of claim 29 wherein a token format comprises:

- an OV field in bit 31;
- a micro engine (UENG) ADDR field in bits 30:28;
- a reserved field in bits 27:16;
- an OV field in bit 15;
- a fast write data field in bits 14:5;
- a reserved field in bits 4:3;
- an OV field in bit 2; and
- a CTX field in bits 1:0.

31. (Original) The computer program product of claim 30 wherein a micro engine address overrides a default micro engine address if bit 31 is set.

32. (Original) The computer program product of claim 30 wherein bits 30:28 specify a micro engine associated with a control and status register (CSR).

33. (Original) The computer program product of claim 30 wherein bits 27:16 return 0 when read.

34. (Original) The computer program product of claim 30 wherein a micro engine address overrides a default micro engine address if bit 15 is set.

35. (Original) The computer program product of claim 30 wherein bits 14:5 represent valid data to be written to a control and status register (CSR).

36. (Original) The computer program product of claim 30 wherein bits 4:3 return 0 when read.

37. (Previously presented) The computer program product of claim 30, wherein a context (CTX) field overrides a default context if bit 2 is set.

38. (Previously presented) The computer program product of claim 30 wherein bits 1:0 specify a context associated with a control and status register (CSR) reference.